ENVIRONMENTAL PROTECTION AGENCY REGION II EDISON, NEW JERSEY 08817

REPLY TO ATTN OF:

2-SA-ER

DATE: July 23, 1975

SUBJECT:

News Article

TO:

Henry Gluckstern Water Enforcement Branch Enforcement Division EPA, Region II 26 Federal Plaza New York, New York 10007

Attached is an article which appeared in The Record, July 21, 1975.

Thought you would like to see.

Michael V. Polito

Emergency Response & Inspection Branch

Attachment



Staff Photo by Peter I

The marsh flanking Berry's Creek looks ordinary, but the area, near the rising sportsplex, is laced with mercury.

The Berry's Creek quagmire

By JOHN WALCOTT HELD

Along the eastern shore of Berry's Creek in East Rutherford, between Paterson Plank Road and Route 3, there is a tidal marsh. It covers about 160 acres and it looks like every other salt marsh in the Hackensack Meadows, a bright green sea of towering reeds crisscrossed by a hapnazard network of murky creeks and ditches.

But the Berry's Creek marsh is not like all the others. For a number of years now — no one knows exactly how many — it has been soaking up poisonous mercury from the creek like a sponge. The marsh's brackish water now contains 30 times the normal amount of mercury, and the poison has settled three feet or more into the mud on the tottom. Ecologists believe it also has worked its way into the plants and mimals that live in the marsh.

No one is sure where the poison came from and no one knows how to get rid of it, but the situation is so bad that the best solution seems to be covering the entire marsh with a nylon liner and starting all over again.

Accidental finding

Of course, pollution is anything but rare in the meadows, which have been little more than an open sewer for decades. Indeed, the plight of the Berry's Creek marsh probably would have gone unnoticed if the New Jersey Sports and Exposition Authority had not made plans to build a football stadium and racetrack next door:

The authority's plans, naturally, became a lightning rod for environmentalists, who wanted to protect the last big chunk of open space in the metropolitan area. The debate came to a head in February 1972, when the state Supreme Court

ruled that the authority had not consulted quately with the state Department of Engmental Protection or the Hackensack Mealands: Development Commission. A man environmental hearing resulted, and when it ed after 25 days the DEP and the HMDC on the Sports Authority to restore 130 acres of Berry's Creek marsh. The marsh, it was the would make an ideal environmental educanter.

That much, at least, was true. The Sport thority and its environmental consultants, McCormick and Associates of Devon, Paceived an immediate — and disturbing — ronmental education.

The bad news

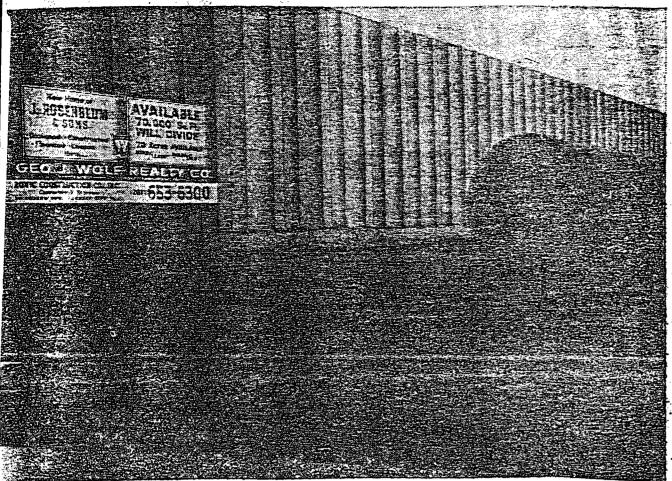
Conditions in the marsh, they disco See MESS, Page A-4



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This trim concrete building stands on the site of the old Wood-Ridge Chemical Co. factory, the suspected source of the mercury pow taining the soil of the Berry's Creek marsh. The property borders a Berry's Creek tributary....

The mess at Berry's Creek

From Page A-1

inches of soil, had sunk down manufacture of hais. down the drains

Was the mercury seeping out from a plastics factory. of the sponge-like marsh into the rest of the Hackensack River system? And above all

questions remain unanswered: as it is to us: Jack: McCormick, and Assoal muskrats for study. The Ironically, the chronic pollamuskrats' tissue will be anation of Berry's Creek may included dredging and refill-lyzed for traces of mercury. have prevented such a trage-ing the marsh (estimated of Beverly, Mass., and then to

ter, the muskrats dig into the roots for food. I think it's a very good bet that we'll find mercury in the muskrais."

Mercury is one of the most stubborn and insidious poisons known to man. It accumulates slowly in the body, building up over weeks and months and combining mostly with blood. nerve, and liver cells. When enough traces of mercury. have built up, the symptoms . of mercury poisoning begin to appear. Sometimes it may be

a loss of the sense of touch in else, and it cannot easily be some years now, but the New hands or feet. Sometimes it is converted into anything less deafness or blindness. Some- toxic. Once it gets into a first to feature and Astrotimes it is emotional instabili- marsh, as it has in Berry's marsh. were far worse than anyone ty, which has given mercury Creek, it is almost impossible had imagined. Poisonous mer- poisoning its mickname, the to get it out. cury, which they had thought. Mad Hatter's disease - the was confined to the top six metal once was used in the Authority has been ordered to

bly much more. Plans to from the womb of a mother to center. Last year, the authoriscrape the poisoned soil off a fetus she carries. When this ty's environmental consultants marsh, and a freshwater the top of the marsh went happens, the fetus may be called a meeting of marsh exborn mentally retarded or perts to discuss alternatives · Also troubling were the un- with cerebral palsy, a form of for cleaning up the mess. answered questions. Had the brain damage that disrupts mercury begun to work its the normal motion of muscles. way through the food chain. In Japan, 46 people died after from the water into the plants eating shellfish taken from and then into the muskrats Minamata Bay, which had and other higher mammals? been polluted with mercury

Effects unimown

Today, three years after the rats or other mammals other the entire mess with a giant Sports Authority first learned than man. The best guess is sheet of plastic, nylon, or rubof the marsh's condition, the that it is as dangerous to them ber and starting over again.

ciates is drawing up an outline, dence that anyone has been might be described as destroyfor an 18-month study of the poisoned by shellfish or other, ing the marsh in order to save marsh and has trapped severy meat taken from the marsh it. "Mercury tends to collect in dy, simply because no one cost: up to \$2.3 million), strip— the George J_Wolf Realty Co. the roots—of plants." says would think of eating anything ping the vegetation and cover—of Jersey City was being de-McCormick. During the win—that been fished out of ing the 130 acres with sand molished In a way to be the control of Berry's Creek.

These days, though, the water in Berry's Creek is getting to immobilize or collect the discharges have been stopped, shared, an important drawthe creek than there has been tested outside a laboratory. in many years. But because of again.

broken down into anything playing on artificial turi for

Nevertheless, restore the marsa for use as at least three feet and proba- Mercury also is able to pass an environmental education 5120,000 for nylon, for example

'I den't knew'

"The outcome of the meet- long the liner would last; ing," says head consultant. Meanwhile, pollution. God. I don't know what to do about it."

McCormick and his men where had the mercury come No one knows what effect tives, ranging to actually covering may have on musk- nothing to actually covering mercury may have on musk- nothing to actually covering the only mess with a giant One of the alternatives was Fortunately, there is no evi- paving over the marsh, which

Other alternatives suggested and gravel (cost: up to \$3.4 million), and using chemicals cleaner: Most of the industrial mercury. All of the methods and there is more oxygen in back none of them has been

It may be two years before the stubborn mercury, Berry's the Sports Authority is forced Creek may never be safe to make a choice, but the most plausible alternative at Mercury is an element, one this point seems to be the of the basic building blocks of plastic, nylon, or rubber liner. the planet Earth. It cannot be Football players have been

Jersey stadium may be the

It would work like this: A dike would be built and the marsh would be drained and stripped of vegetation A 130-acre liner — costing about - would be spread over the marsh would be started on top of the liner, perhaps using runoif from the sports complex's 20,000-car parking lot. Drawbacks: No one is sure the scheme will work, or how

pollution ex-Jack McCormick, was, My perts from the state Department of Environmental Protection, the U.S. Environmental Protection Agency, and the drew up a list of 12 alterna- meadowlands commission still are trying to figure out where all that mercury came from.

A fat clue presented itself last summer. On Jone 7, a water, oil, and mercury spill was reported at the site of the oid Wood-Ridge Chemical Co. on the West Riser Ditch, a tributary of Berry's Creek, about two miles upstream from the marsh. The plant which had with occupational safety and health regulations, the demolition workers.\were watering down the property while they razed the building. The water running off the site carried oil and mercury into the ditch.

Who knows how long?

During the 40 years it had operated, the plant had used a substantial amount of mercury in its operations and eventually had installed a pollution control system to eliminate the discharge of poison into the Riser Ditch. For many years no one knew, or even asked, what the plant - or others-like-it - was pouring into the meadows. Now it was too late.

Today the old chemical plant is gone replaced by an antiseptic-looking white concrete building marked by a large sign advertising the space inside for rent. Downstream, invisible, the mercury

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